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Fourth meeting of Directors of centres participating in the Statistical Training Programme for Africa (STPA)

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PROGRAMME OF WORKSHOPS AND SEMINARS FOR 1986-1987

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I. INTRODUCTION

1. One of the objectives of the Statistical Training Programme for Africa (STPA) is to ensure the improvement and maintenance of the quality of the serving statistical staff. To achieve this objective, the centres participating in the STPA and the associate centres organise refresher courses, short-term courses and seminars for serving statisticians so as to renew and update their knowledge particularly in the disciplines vital for statistical work. Information regarding different short-term specialised course programmes and seminars, especially those organised outside the African region and which are of interest to the African countries, are published in the "STPA News".

2. The aim of this document is to brief this meeting of Directors of the STPA centres on:

a) The implementation of the programmes of short-term training courses and seminars planned for the 1983-1985 period;

b) The next programme of short-term training courses and seminars covering the period 1986-1987 as well as external assistance requested from ECA and the donor agencies for the implementation of the programme.

c) A few proposals for a better and effective co-ordination of the overall short-term training activities of the STPA centres.

3. Although other non-STPA Associate centres outside the region, for instance, the US Department of Labour, Washington, the US Bureau of Economic Analysis, Department of Commerce, the Tashkent Agricultural Institute, USSR, the University of Strathclyde, Fraser of Allander Institute, Glasgow, United Kingdom, contributed to the organisation of refresher courses for serving statisticians, this document only provides information on short-term training activities of STPA and Associate centres.

II. WORKSHOPS AND SEMINARS ORGANISED DURING THE PERIOD 1983-1985

4. Annex I of this document contains a list of the workshops and seminars planned and organised in the field of statistics during the years 1983-1985. The list was prepared on the basis of document E/ECA/STPA/DM.3/7 submitted to the third meeting of directors of the centres participating in the STPA (November 1983) and the information available at ECA regarding the organisation of those workshops and seminars. The secretariat is aware of the inadequacy of its information in this area and therefore invites the participants to make every correction to it as they may deem necessary.

5. However, the examination of annex I revealed that:

(i) STPA centres had planned and organised relatively few short-term courses and seminars during this period. These centres are, for the French-speaking countries, IFORD (Yaounde) and INSEA (Rabat); and, for the English-speaking countries, EASTC (Dar-es-Salaam), ISAE (Kampala), RIPS (Legon) and the Department of Statistics, National University of Lesotho.

(ii) On the other hand, the five STPA Associate centres, namely, the Munich Centre for Advanced Training, IDS of the University of Sussex, ASRU of the University of Kent, ISPC of the US Bureau of the Census, and ISS (Hague) were very active in organising seminars and short-term training courses and programmes.

III. PROGRAMME OF WORKSHOPS AND SEMINARS FOR 1986-1987

6. The secretariat had requested the STPA and Associate centres to communicate to it their programmes of workshops and seminars for the period 1986-1987 as well as the type of assistance they would be needing from donor agencies for the implementation of these programmes. Up to the time this document was being written, 8 centres out of 15 STPA and 5 associate centres had reacted to the secretariat's request. Details on these short-term training courses and seminars which are recapitulated at Annex II of this document, are as follows:

A. Centres participating in STPA

(i) Centre européen de formation des statisticiens economistes de pays en developpement (CESD)

7. This centre will organise in 1985, 1986 and 1987, a seminar on micro-computers for African statisticians. Each seminar, lasting between two and three weeks, will be attended by about fifteen participants from one African sub-region. Its main aim will be to give a practical illustration of the possibilities and extent of the utilization of micro-computers in statistical operations. All these seminars will take place in Africa; the 1985 seminar will be held in December in Dakar.

8. CESD intends organising in 1986, a workshop on the method of training African statisticians, probably in Paris.

9. With regard to the financing of these seminars, the French Ministry of Co-operation and Development will give financial support for the organisation of the seminar on micro-computers in 1985, while CESD will continue its efforts to obtain financial assistance from France and the EEC in respect of the seminars planned for 1986 and 1987.

(ii) Institut national de statistique et d'economic appliquée (INSEA)

10. INSEA will, each year, 1986 and 1987, organise three seminars, each seminar lasting one week dealing respectively with statistics, economics and computer science. Programmes of these seminars have not yet been finalised.

11. The following activities have also been planned for 1986:

- a seminar on "North-South dialogue with the view to overcoming the crisis"; African lecturers will be invited to participate in it (May).
- two or three research groups to consider matters relating to economic systems and population studies which have always been of interest to INSEA.

12. For the 1986-1987 (two years) period, INSEA intends convening study groups to consider the various topics which are yet to be defined. These study groups will include final year students preparing their dissertations.

13. It should be pointed out at this stage that as part of short-term training courses, INSEA has, for years, been sending computer scientists to European countries and North America for practical training. In the spirit of inter-african co-operation INSEA hopes to send some of its students for training in Computer Science centres of African countries which would be ready to accept them for a few months.

14. For the implementation of the overall programme, INSEA will need an annual financial assistance amounting to US$50,000.

(iii) "College de statistiques" (CS) Dakar, Senegal

15. The " College de statistique" of Dakar intends organising two training seminars on specific topics during the 1986-1987 period for experienced statisticians so as to revive and up-date their knowledge especially in the disciplines vital for statistical work.

1) Training seminars on simulation methods

16. This method consists of placing genuine macro-economic problems to be resolved within the context of a hypothetical country. The common cases are:

(a) The "Baramu" simulation model aims at stimulating reflections on economic and social data required for development planning.

- Period : January 1986
- Duration : 15 days
- Number of students : 25, ITS, Junior and Senior statistical staff
- Venue : National School of Applied Economics

(b) "Kangare" simulation model leads to a deeper understanding of the principles, concepts and methods of national accounts.

- Period : March 1986
- Duration : 10 days
- Number of students : 25, ITS, Junior and Senior statistical staff
- Venue : National School of Applied Economics

(c) "Jeu de l'ile" simulation model helps to highlight the relationship between economic development and political decisions.

- Period : April 1986
- Duration : 10 days
- Number of students : 25, ITS, Junior and Senior statistical staff
- Venue : National School of Applied Economics

(d) "Jeu de conserveries maritimes" simulation model facilitates an indepth study of the principles of enterprise accounting and management.

- Period : May 1986
- Duration : 10 days
- Number of students : 25, ITS, Junior and Senior statistical staff
- Venue : National School of Applied Economics

2) Training seminar on data processing

17. This seminar will help students use two computer software packages which are especially suited to statistical data processing.

- data capture
- data editing
- tabulation
- analysis (correlation, regressions, analysis of variance, factorial analysis, etc...)

Period : June 1986 and 1987

Duration : 30 days

Number of students : 25, ITS, Senior Statistical staff

Venue : National School of Applied Economics

18. To ensure the success of this programme, the "College de statistique" of Dakar, hopes to receive financial assistance purely for:

- paying the travel expenses and subsistence allowances of five INSEE experts. Each expert will participate in the programme for 10 days;
- paying fees for local experts involved in teaching data processing;
- paying travel expenses of the students;
- meeting miscellaneous expenses relating to the purchase of office supplies and fuel. A total of US$43,194 or 21,597,000 CFA Frs at the rate of US$1.00 = 500 CFA Frs will be needed for all the 6 seminars.

(iv) Department of Statistics, University of Ghana, Legon

19. The Department of Statistics has not yet decided on its programme of seminars and workshops for the 1986-1987 period. Information will be provided during the fourth meeting of Directors of centres participating in the STPA. However, the Department of Statistics is planning a regular training programme for junior statistical staff (certificate) working in the private and public sectors. It is proposed that the courses, which will be held in two successive years, will be organised in July and August, leading to the award of certificates.

(v) Institute of Statistics and Applied Economics
Makerere University, Uganda

21. The Institute of Statistics and Applied Economics intends organising the following seminars and working groups during the 1986-1987 period, both at national and sub-regional levels:

(1) At national level:

Topic : Role of Statistics in Development Planning

Date : September 1986

Duration : 1 week

(2) At sub-regional level:

a) Topic : Impact of population growth on development prospects

Date : April 1986

Duration : 2 weeks

b) Topic : National Household Capability Programme

Date : July 1986

Duration : 2 weeks

c) Topic : Agricultural and Rural Project Analysis and Planning

Date : April 1987

Duration : 4 weeks

d) Topic : Advanced Techniques for Utilisation of Statistics in Planning and Plan Implementation

Date : July 1987

Duration : 2 weeks

e) Topic : Organisation and Implementation of Agricultural Censuses

Date : September 1987

Duration : 2 weeks

22. The Institute has not communicated to the secretariat the amount or type of assistance it will require from the ECA and the donor agencies for the implementation of this programme.

23. The Institut de statistique de planification et d'economie appliquée (ISPEA) Yaounde, the Ecole nationale supérieure de statistique et d'economie appliquée (ENSEA) Abidjan, the Institut africain et mauricien de statistique et d'economie appliquee (IAMSEA) Kigali, intimated that they did not plan any seminars or working groups for the 1986-1987 period. However, with the imminent transformation of the ISPEA, Yaounde, into a sub-regional centre of UDEAC, this centre and ENSEA of Abidjan are ready to host working groups and seminars to be organised in their respective sub-regions.

B. Associate centres

(i) Munich Centre for Advanced Training

24. The 1986 training and seminar programmes of the Munich centre are as follows:

1) Course in national accounts

- Period : March - June 1986 in English
  September-December 1986 in French

- Venue : Munich

2) A two week seminar for the Directors of statistical offices is planned for July 1986 in Munich.

25. Depending on the availability of funds, the Munich Centre intends organising in addition to the above one or two workshops in 1986. If the workshop on data processing, planned for October 1985 in West Africa and November 1985 in Southern Africa proves successful, this workshop will be repeated in other sub-regions.

26. The 1987 programme of these activities will finally be decided in October 1985 and the centre will provide more detailed information in this regard during the meeting.

(ii) Institute of Development Studies (IDS)
University of Sussex

27. Topic : Development Statistics

Period : 4 August - 31 October 1986

Venue : University of Sussex, Brighton

28. This course is meant for statisticians, planners and officials responsible for data collection and analysis. The aim is that by the end of the course participants will have developed:

- Technical ability to select and apply the appropriate methodology to a given situation
- Managerial skills
- Professional approach to the collection and analysis of basic statistics required for the formulation of economic policy.

(iii) Applied Statistics Research Unit (ARSU)
University of Kent, Canterbury

29. ARSU intends organising the following courses during the 1986-1987 period:

1. Topic : Sample Surveys in Agriculture and Rural Development
   Period : July-September 1986
   Venue : University of Kent
   Duration : 12 weeks

The following course is also planned for 1987:

2. Topic : Crop Experimentation in Developing Countries
   Period : July-September 1986
   Venue : University of Kent
   Duration : 12 weeks

The following course will also be organised in 1987:

3. Topic : Time Series Analysis and Forcasting
   Period : Spring 1986
   Venue : University of Kent
   Duration : 1 week

The following course may be held in any STPA centre in Africa on request:

4. Topic : Sampling Inspection and Quality Control
   Period : Summer 1986
   Venue : University of Kent
   Duration : 1 week

5. Topic : Elementary Statistical Methods
Period : 1986
Venue : University of Kent
Duration : 1 week

The above course could also be made available in any STPA centre in Africa.

6. Other courses that can be made available on request, to be run either at the University of Kent or at any of the centres participating in STPA, are as follows:

- Statistics in Agricultural Experimentation (3 weeks)
- Sample Survey: (Theory and Practice) (2 weeks)
- Multiple Repression Analysis (2 weeks)
- Multivariate Analysis (1 to 2 weeks)
- Ecological Statistics (1 to 3 weeks)

ASRU is also ready to consider other requests for courses in the field of statistics and computer science.

(iv) International Statistical Programs Centre (ISPC), Bureau of the Census, Washington, D.C.

30. ISPC, as is the practice each year, intends implementing a training programme in Washington in each of the following special fields:

- sampling and statistical methods
- agricultural statistics
- demographic statistics
- economic statistics
- computer data systems
- survey methods
- census-survey geography

31. The programme for each of these special fields, composed of 5 modules, covers one academic year from 22 August 1985 to 31 July 1986. Participants can enrol either for the whole course leading to an award of a diploma on successful completion or for one or several modules for an award of a certificate. ISPC has also designed short-term training programmes lasting 4 to 7 months in the same specialised fields.

32. The programmes of these different courses for the 1985/1986 period have been up-dated in line with the present statistical economic and agricultural needs of the countries and progress made in computer data processing.

(v) Institute of Social Studies (ISS) The Hague, Netherlands

33. Topic : Development Planning Techniques

Date : 17 September 1985 - 4 April 1986

Duration : 6 months

Venue : The Hague

34. The Development Planning techniques programme has been designed for three categories of participants:

- Those involved in national and regional development process (macro-economic and micro-economic planners);
- Those involved in the preparation and analysis of data required for the planning process (national accountants and statisticians); and
- Those involved in teaching these subjects at the University and specialised institutions

35. The programme offers the opportunity to participants to acquire further knowledge in the various fields, particularly data collection as well as their use in development planning and formulation of economic policies.

36. Participants who have been granted fellowships by their Governments, donor agencies (UNDP, FAO, EEC, CFTC...) or other foundations (Rockfeller, Ford,..) may take part in the refresher courses, short-term training courses and seminars organised by the Associate centres. The fellowships normally cover school fees, including teaching manuals and materials, participants' travel expenses from their places of residence to the centre and return, their board and lodging and miscellaneous expenses. Where the courses are organised in an STPA centre, additional provision should be made for paying the organisation, including the fees and travel expenses of the lecturers as well as various local expenses.

37. In summary, it follows from this description that programmes for short-term courses and seminars for the 1986-1987 period cover the following main topics:

1. For the STPA centres: Statistical data processing (CESD, CS, INSEA), General Economics (INSEA) Training (CESD, Department of Statistics, Legon); Applied Statistics such as national and business accounting (CS), Models (INSEA), agricultural surveys and household capability survey (ISAE) and data analysis and utilisation (ISAE).

2. For the Associate centres: the topics proposed cover wide area ranging from mathematical statistics (ASRU, ISPC), applied statistics such as national accounts (Munich centre), agricultural surveys (ASRU, ISPC), data analysis and utilisation (IDS, ISS) and general organisation of a statistical service (Munich centre).

IV. PROPOSALS FOR A BETTER AND EFFECTIVE CO-ORDINATION OF ACTIVITIES INVOLVING SHORT-TERM TRAINING COURSES ORGANISED BY STPA CENTRES

38. During the third meeting of Directors of the STPA centres, participants expressed the view that an effective system be devised for a better co-ordination of the overall short-term training courses to avoid duplication. It is therefore a question of making optimum use of the limited resources required for the implementation of these courses hence the growing importance of determining priorities. The various proposals made hereunder relate more specifically to the organisation of the courses and seminars of the STPA centres which find it financially difficult to implement their projects. A system comprising the following stages may be adopted:

1. Determination of the fields to be covered by the short-term courses and seminars

39. It is necessary to identify and define, immediately the priority areas to enable each centre to draw up its short-term programme for the period 1986-1989. In this connection, it will be possible for centres which have not yet drawn up their programmes to do so or even modify them. Considering the number of projects to be implemented by the above centres and Associate centres as well as the present statistical needs of African countries, emphasis would be placed in areas such as:

- Applied statistics
- Statistical data processing
- Data analysis and utilisation
- Statistical data suppliers and user relationship.

40. Annex III provides indicative list of the topics on short-term courses and seminars for the period 1986-1989. This list will be submitted to the Joint Conference of African Planners, Statisticians and Demographers with a view to establishing priorities in the implementation of the programme.

2. Programming of projects at the level of each centre

41. On the basis of the list of priorities prepared by the Joint Conference, each centre would, after consultations with the other centres, draw up its own 1986-1989 pluriannual and annual programme, taking into account not only the needs of the host country but also those of the user countries. The consultations will centre on:

- topics
- dates and periods
- frequencies: two a year, for instance
- venue: Headquarters of the centre in general
- level and number of participants.

This programme will be approved by the Governing Council of the centre.

3. Centralisation, co-ordination and dissemination of the programmes by ECA

42. The various programmes of the centres would be communicated to the ECA which, after examination of the projects and consultation with the centres, would draw up a global programme of activities. This programme would be published in the "STPA News" together with the details relating to each course, topics, objectives and content, venue, date, conditions for registration, etc...

4. Financing of the programme

43. Despite their reduced financial resources, the donor agencies (UNDP, EEC, French Fund, CFTC, DTCD) have always shown interest in the organisation of training activities and are always ready to lend their financial support. However, STPA centres and African Governments should also show their willingness to co-operate by earmarking in their budgets; sums, however modest, for the organisation of these courses.

44. ECA for its part, can contribute by (i) undertaking preliminary informal negotiations with donor agencies to secure their financial support; (ii) preparing project documents for submission to the interested donor agencies for the purposes of financing. ECA can also assist by providing experts and lecturers to organise the training courses.

45. There is obviously room for more suggestions and the list is not exhaustive. Attempt is being merely made here to propose solutions which in our view can help ensure a better co-ordination of the activities to be undertaken in this area.

V. CONCLUSION

46. It should be pointed out that despite the very appreciable contribution from the Associate centres, progress made in the organisation of short-term courses and seminars is relatively small. STPA centres should endeavour to increase the number of their seminars and workshops. It is true that the implementation of these programmes depend, to a large extent, on external technical and financial assistance However, effective co-operation of all the parties concerned - African Governments, STPA and associate centres, non-STPA centres, bilateral and multilateral aid organisations - would help attain STPA objectives, namely improve and maintain the quality of the serving statistical staff.

47. Participants of this fourth meeting are invited to:

i) make comments and suggestions on the list of statistical workshops and seminars organised during the 1983-1985 period and those scheduled for 1986-1987;

ii) express their views on the proposals for the establishment of a mechanism for co-ordinating the preparation and organisation of short-term courses and seminars of STPA centres

iii) draw up the indicative list of topics for the choice of STPA centres in organising short-term courses and seminars.

Annex I

Workshops and seminars organized by STPA and associate centres during the 1983-1985 period

Training centre	Plans for 1983-1985 Topic	Date	Observation	Situation 1/
A. CENTRE PARTICIPATING IN STPA				
1. French-speaking				
a. - CESD, Paris	- Introduction to Data analysis	5-6 Sept. 1983		x
	- Seminar on Micro-computer system	1984	Sub-regional intended for statisticians from the Indian Ocean	
b. - IFORD, Yaounde	- Use of demographic data	July 1984		
	- Statistical analysis of demographic data	1985		X
c. - INSEA, Rabat	- Macro-economic models			X
	- Relation, Education, Employment	1984 & 1985		X
	- Demographic analysis			
d. - "College statistique", Dakar	- Training seminar on simulation method			
	- "Baramu"	Jan. 1984		X
	"Kangare"	March 1984		
	- "Jeu de l'île"	April 1984		
	- "Jeu de conserveries maritimes	May 1984		
	- Training seminar in data processing			
	- Use of computer software packages in statistical data processing	June 1984 June 1985		

1/ X means effectively held

Training centre	Topic	Date	Observation	Situation 1/
2. English-speaking				
a. Department of Statistics, Lesotho	- Teaching of Statistics and its application	Sept. to Dec. 1984	Sub-regional seminar for the Southern African countries (Botswana, Swaziland, Zimbabwe)	
b. EASTC, Dar-es-Salaam	- General Statistics	1984	Courses in each country (Kenya, The Sudan)	
	- Seminar between producers and users of statistics	1984 and 1985	Seminar organized in co-operation with CSO of Tanzania	
c. RIPS, Legon	- 2 weeks advanced courses for high level staff - 6 to 8 weeks in-service training for intermediate staff	1984 to 1987	Courses run in the countries of the sub-region: high level: 2 a year in-service: 3 a year	
d. ISAE, Makerere	- Workshop for Data producers and Users in Uganda	Sept. 1985		
B. ASSOCIATE CENTRES				
a. Munich Advanced Training Centre	- Price statistics	March-June 1984	English	X
		Sep.-Dec. 1984	French	X
	- Present problems & future prospects for the management of a statistical service	Jul-Aug. 1985	English	X
		Jul. 1985	French Seminar intended for Directors of Statistical Services	X
	- Agricultural statistics	Mar-June 1985	English	X
		Sep.-Dec. 1985	French	X

1/ X means effectively held

Training centre	Topic	Date	Observation	Situation 1/
	- Statistical data processing	Oct. 1985	Seminar in French for West-African countries	X
		28 Oct-15 Nov 1985	Seminar in English for Southern Africa countries (Botswana, Lesotho, Malawi, Swaziland, Zambia, Zimbabwe)	X
b. IDS, University of Sussex, U.K.	- Development Statistics	30 Apr.-27 Jul 1984		X
c. ASRU University of Kent, U.K.	- Sample survey in Agriculture and Rural Development	Jul-Sept 1984 & 1985		X
	- Elementary Statistical Methods	9-13 Jul. 1984		X
	- Sample Survey : Theory & Practice	15-28 Jul. 1984		X
	- Multiple Regression Analysis	30 Jul-10 Aug 1985		X
	- Multivariate Analysis	13-17 Aug. 1984		
	- Crop Experimentation in developing countries	Jul-Sept. 1985		X
d. ISPC, Bureau of the Census, Washington	- National Accounts	6 May-16 Dec. 1983		X
	- Sampling and statistical methods	Sept. to July 1985		X
	- Agricultural statistics			X
	- Demographic statistics			X
	- Economic statistics			X

1/ X means effectively held

Training centre	Topic	Date	Observation	Situation 1/
d. cont'd	- Computer data system	Sept. to July 1985	2 to 3 week courses on request	X
	- Sampling methods			X
	- Special programme			X
	- Technology of micro-computers	23 Jul-3 Aug. 1984		X
	- Concepts and Principles of sample planning for the implementation of surveys	19-31 Aug. 1984		X
	- National Accounts	May-Dec. 1985		X
	- Use of micro-computers in demographic analysis	22 Jul-9 Aug. 1985		X
	- Censuses and agricultural surveys	19 Aug-30 Aug. 1985		X
e) ISS, The Hague, Netherlands	- Development Planning Techniques	17 Sept-3 Aug. 1985		X

1/ X means effectively held

Annex II

Summary of the programme of workshops and seminars of STPA and Associate centres for the period 1986-1987

Training centres	Topic	Date	Observation
STPA CENTRE			
1. French-speaking			
a) CESD, Paris	- Possibilities and limits of the use of micro-computers in statistical operations	Dec. 1985, 1986 and 1987	Seminar intended for participants from one African sub-region
	- Training workshop for African statisticians	1986	
b) INSEA Rabat	- Statistics, Economics, Computer Science	1986-1987	Several working groups a week
	- North-South Dialogue and the exit of the crisis	May 1986	
c) "College Statistique", Dakar	- Training seminar on simulation method		
	- "Baramu"	Jan. 1986	
	- "Kangare"	Mar. 1986	
	- "Jeu de l'ile"	Apr. 1986	
	- "Jeu de conserveries maritimes"	May 1986	
	- Utilisation of soft-ware computer packages in data processing	June 1986 and 1987	
2. English-speaking			
a) Department of Statistics, Legon	- Training courses for senior statistical staff	Jul-Aug 1986 Jul-Aug 1987	Certificate Courses run during the long vacations
b) ISAE, Makerere	- Impact of population growth on development prospects	April 1986	Sub-regional seminar 2 weeks
	- Workshop on the Role of statistics in planning	July 1986	Sub-regional seminar 2 weeks

Training centres	Topic	Date	Observation
b) cont'd	- National Household Capability Programme	Sept. 1986	National Workshop, 2 weeks
	- Agricultural and Rural Project Analysis and Planning	April 1987	Sub-regional seminar, 4 weeks
	- Advanced techniques for utilization of statistics in planning and plan implementation	July 1987	Sub-regional seminar, 2 weeks
	- Organization and implementation of agricultural censuses	Sept. 1987	Sub-regional seminar, 2 weeks
ASSOCIATE CENTRES			
a) Munich Centre for Advanced Training	- National accounts	Mar-June 1986 Sep-Dec 1986	English French
b) IDS, University of Sussex	- Development statistics	4 Aug. - 31 Oct. 1986	
c) ASRU, University of Kent, U.K.	- Sample survey in agricultural and rural development	Jul-Sept. 1986	
	- Crop experimentation in developing countries	June-Sep. 1986	
	- Time series analysis and forecasting	Spring 1986	
	- Sampling inspection and quality control	Summer 1986	
	- Elementary statistical methods	1986	
	- Special programmes on:	1986-1987	On request
	- Statistics in agriculture experiments		3 weeks
	- Sample survey: (Theory & Practice)		2 weeks
	- Multiple regression analysis		2 weeks
	- Multivariate analysis		1 to 2 weeks
	- Ecological statistics		1 to 3 weeks

Training centres	Topic	Date	Observation
d) ISPC, Bureau of the Census, Washington	- Sampling and statistical methods - Agricultural statistics - Economic statistics - Computer data systems - Survey methods - Census-survey geography	Sept. 1985 to July 1986	
	- Special programmes		2 to 3 week courses on request
e) ISS, The Hague, Netherlands	- Development planning techniques	17 Sept. 4 April 1986	

Annex III

Indicative list of the main topics of short-term courses and seminars

Field	Main topic
1. Applied statistics:	(Collection, processing, analysis) Agricultural and industrial household surveys Censuses, demographic surveys Civil status Data processing Data analysis National accounts Social accounting matrix Food accounting matrix Models in statistics extracted from administrative documents
2. Utilisation of statistics:	(Intended for officials in charge of planning economic affairs, ministries of finance, central banks....) - Demographic variables and development planning - Balance of payments, and monetary statistics - Short-term indicators through forecasts
3. Statistics suppliers and users relationship	- Determination of statistical priorities - Organisation of statistical services - Training of statisticians
4. Statistical data processing:	- Study of statistical computer software packages - Data analysis (multi-dimensional) - Establishment and management of data banks and bases - Data processing - Use of computer in national accounting.